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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKETAYO		
10/064,829	09/21/2002		ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/004,029	08/21/2002	Chellappa Balan	124719	9788	
	590 11/26/2004		EXAM	INER	
GENERAL E	GENERAL ELECTRIC COMPANY				
GLOBAL RESEARCH			DOVE, TRACY MAE		
PATENT DOCKET RM. BI NISKAYUNA, NY 12309	KET RM. BLDG. K1-4	A59	ART UNIT	PAPER NUMBER	
NISKA I UNA,	NY 12309		1745		
•			DATE MAILED: 11/26/2004	ļ	

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)	
Office Anti- 0	10/064,829	BALAN, CHELLAPPA	
Office Action Summary	Examiner	Art Unit	
7	Tracy Dove	1745	
The MAILING DATE of this communicate Period for Reply	tion appears on the cover sheet wi	th the correspondence address	
A SHORTENED STATUTORY PERIOD FOR THE MAILING DATE OF THIS COMMUNICA  - Extensions of time may be available under the provisions of 37 after SIX (6) MONTHS from the mailing date of this communic.  - If the period for reply specified above is less than thirty (30) da  - If NO period for reply is specified above, the maximum statutor  - Failure to reply within the set or extended period for reply will, Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).  Status  1) Responsive to communication(s) filed on	ATION, 7 CFR 1.136(a). In no event, however, may a reation.  Tys, a reply within the statutory minimum of thirty ry period will apply and will expire SIX (6) MONT by statute, cause the application to become AB/the mailing date of this communication, even if ti	ply be timely filed  (30) days will be considered timely.  HS from the mailing date of this communication	on.
2a) This action is <b>FINAL</b> . 2b)	☑ This action is non-final.		
3) Since this application is in condition for a	allowance except for formal matte	rs, prosecution as to the merits is	s
closed in accordance with the practice u	ınder <i>Ex parte Quayle</i> , 1935 C.D.	11, 453 O.G. 213.	
Disposition of Claims			
4)  Claim(s) 1-14 is/are pending in the application Papers	ithdrawn from consideration.	d.	
•			
9) ☐ The specification is objected to by the Example 10) ☐ The drawing(s) filed on 21 August 2002 is  Applicant may not request that any objection of Replacement drawing sheet(s) including the control of the oath or declaration is objected to by the specific or the control of the control o	s/are: a)⊠ accepted or b)⊡ obje to the drawing(s) be held in abeyance correction is required if the drawing(s)	e. See 37 CFR 1.85(a).	l).
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for for a) All b) Some * c) None of:  1. Certified copies of the priority documents of the priority documents. Copies of the certified copies of the application from the International But * See the attached detailed Office action for a second content of the certified copies.	ments have been received. ments have been received in App priority documents have been re ureau (PCT Rule 17.2(a))	lication No ceived in this National Stage	
Attachment(s)  1) ☐ Notice of References Cited (PTO-892)  2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948  3) ☑ Information Disclosure Statement(s) (PTO-1449 or PTO/SI Paper No(s)/Mail Date 8/28/02.		mary (PTO-413) ail Date nal Patent Application (PTO-152)	

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#### **DETAILED ACTION**

### Information Disclosure Statement

The information disclosure statement (IDS) submitted on 8/28/02 has been considered by the examiner.

## Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 1-14 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention. The specification recites "the cooling apparatus 100 serves to electrically connect the anode of one repeatable fuel cell unit to the cathode of an adjacent unit" [0013]. If the cooling apparatus has a cavity allowing the fluid from the upper section to enter the lower section, then the same fluid (oxidant or gaseous fuel) would contact both anode and cathode surfaces. Figure 1 shows the fluid 190 contacts the cathode surface 200. As disclosed by the specification, another fuel cell is located adjacent the lower section 130. Hence, the fluid 190, via cavity 180, contacts both the cathode 200 of a first fuel cell and the anode of a second fuel cell. In order for a fuel cell to operate, an oxidizing fluid contacts the cathode and a fuel fluid (i.e., hydrogen) contacts the anode. It is unclear how the fuel cell generates power since the same fluid (i.e., oxidant or gaseous fluid) contacts both the anode and the cathode electrodes. See Figure 3 of the specification.

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The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 6 and 14 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claims 6 and 14 contain trademarks, which are not permitted in claim language because they render the claim indefinite.

#### Conclusion

If Applicant believes a telephone interview would clarify the invention and expedite prosecution of the application, Applicant is invited to telephone the Examiner to discuss the 35 U.S.C. 112, 1<sup>st</sup>, rejection above.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tracy Dove whose telephone number is 571-272-1285. The examiner can normally be reached on Monday-Thursday (9:00-7:30).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Pat Ryan can be reached on 571-272-1292. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Tracy Dove Patent Examiner

Technology Center 1700

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November 24, 2004